IN THE CLAIMS:

Claims 1, 2, 4 through 8 and 10 are presently pending in the above identified application. Claims 3, 9 and 11 have been previously cancelled without prejudice or disclaimer. Also, please amend Claims 1, 7, 8 and 10 as follows:

- 1. (Currently Amended) A magnetic recording apparatus, comprising:
 - a <u>perpendicular</u> magnetic recording medium having a soft magnetic underlayer and a magnetic recording layer;
 - a magnetic head including a recording head;
 - a signal processing circuit for converting user data into a recording data sequence on a sector block by sector block basis; and
 - a current driver for converting the recording data sequence into a recording current that is applied to the recording head, wherein

the signal processing circuit adds at the end of the recording data sequence for each sector block a repetition pattern of a minimum bit length for the particular block, and the repetition pattern comprises four or more bits of repetitions of magnetization inversion at the intervals of a minimum-bit length of a relevant sector includes more than two of the repeated minimum bit length.

- 2. (Original) The magnetic recording apparatus according to claim 1, wherein the signal processing circuit adds a repetition pattern of the minimum bit length after a postamble portion that follows an ECC portion.
- 3. (Cancelled)
- 4. (Original) The magnetic recording apparatus according to claim 1, wherein the length of the minimum bit length added is one byte or more.
- 5. (Original) The magnetic recording apparatus according to claim 1, wherein the recording head is a single pole type head having a main pole and an auxiliary pole.
- 6. (Original) The magnetic recording apparatus according to claim 1, wherein a minimum track pitch in the apparatus is 250 nm or less.

- 7. (Currently Amended) A <u>perpendicular</u> magnetic recording medium comprising a soft magnetic underlayer and a magnetic recording layer in which user data is recorded on a sector block by sector block basis, wherein, at the end of a recording data sequence in each sector block, a repetition pattern of a minimum bit length for the particular sector block is added, and the repetition pattern <u>comprises four or more bits of repetitions of magnetization inversion at the intervals of a minimum-bit length of a relevant sector includes more than two of the repeated minimum bit length.</u>
- 8. (Currently Amended) The <u>perpendicular</u> magnetic recording medium according to claim 7, wherein <u>the</u> [[a]] repetition pattern of the minimum bit length is added after a postamble portion that follows an ECC portion in each sector block.
- 9. (Cancelled)
- 10. (Currently Amended) A method of recording information on a <u>perpendicular</u> magnetic recording medium comprising a soft magnetic underlayer and a magnetic recording layer using a recording head, the method comprising the steps of:

converting inputted user data into a recording data sequence;

adding a repetition pattern of a minimum bit length at the end of the recording data sequence, the repetition pattern comprising four or more bits of repetitions of magnetization inversion at the intervals of a minimum-bit length of a relevant sector including more than two of the repeated minimum bit length;

converting the recording data sequence to which the repetition pattern of the minimum bit length is added at the end thereof into a recording current; and

driving the recording head with the recording current.

11. (Cancelled)